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ATTORNEY DOCKET NO.: 2002147-0020

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Leeb, et al. Examiner:
Serial No.: 10/617,082 Art Unit: 2821
Filing Date: July 10, 2003
Title: HYBRID OPTICAL COMMUNICATION NETWORKS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

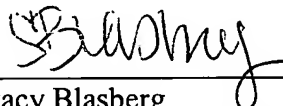
TRANSMITTAL LETTER

Enclosed are the following documents:

1. Form PTO-1449 (3 pages);
2. Information Disclosure Statement (6 pages);
3. Transmittal Letter (1 page)
4. Listed References (36); and
5. Return Postcard.

If any additional fees are required to be paid or if any overpayment has been made, please charge same to Deposit Account No. 03-1721.

Respectfully submitted,



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Dated: 7/22/04

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7-22-04 Sandra Saccocia
Date Signature
Sandra Saccocia

Typed or Printed Name of person signing certificate



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STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant requests consideration of this Information Disclosure Statement.

Type of Statement

The present Information Disclosure Statement is:

- ☒ An *original* Information Disclosure Statement; or
☐ A *supplemental* Information Disclosure Statement.

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7-22-04	<i>Sandra Saccocia</i>
Date	Signature
Sandra Saccocia	
Typed or Printed Name of person signing certificate	

Compliance with 37 CFR § 1.97

The present Information Disclosure Statement is being filed:

- ☒ Pursuant to 37 CFR § 1.97(b); no fee or certification is required:
 - ☐ Within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
 - ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application;
 - ☒ Before the mailing of a first Office action on the merits; or
 - ☐ Before the mailing of a first Office action after the filing of a request for continued examination under § 1.114.
- ☐ Pursuant to 37 CFR § 1.97(c) after the dates listed above but before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application; Applicant hereby *either*:
 - ☐ Certifies that *either*:
 - ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
 - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making

reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.; or

☐ Includes herewith the fee set forth in § 1.17(p).

☐ Pursuant to 37 CFR § 1.97(d), after the mailing date of any final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application; Applicant hereby *both*:

☐ Certifies that *either*:

☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.; and

☐ Includes herewith the fee set forth in § 1.17(p).

Content of the Information Disclosure Statement

Applicant hereby makes of record in the above-identified application the reference(s) listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

Applicant includes copies of references as indicated below:

- ☐ A copy of each cited reference not indicated with an asterisk is included;
- ☒ Copies of references indicated with an asterisk on the attached form PTO-1449 are not included pursuant to 37 CFR § 1.98(d) because they were previously provided to the United States Patent Office in an Information Disclosure Statement that complies with 37 CFR § 1.98(a)-(c) and was submitted in the following patent application that is relied upon in the present case for an earlier effective filing date under 35 USC § 120:

Serial Number	Filing Date	Status
10/161,458	May 31, 2002	Published

- ☐ Copies of English translations of one or more non-English references are included.

Applicant hereby makes the following additional information of record in the above-identified application:

Applicant certifies that the Information Disclosure Statement *either*:

- ☐ Does not contain non-English language citations;
- ☐ Does contain non-English language citations, of which the following is a concise explanation:
- ☐ Includes one or more translations of a non-English citation.

Remarks

The submission of this Information Disclosure Statement should not be construed as a representation that a search has been made.

The submission of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b) .

The submission of this Information Disclosure Statement shall not be construed as a representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.


It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited patent(s) and publication(s) has (have) been fully considered by the Patent and Trademark Office during the examination of this application; and
3. The citations for the patent(s) and publication(s) be printed on any patent which issues from this application.

Notwithstanding any statements by Applicants, the Examiner is urged to form his or her own conclusions regarding the relevance of the cited reference(s).

Respectfully submitted,

Dated: 7/22/01



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Registration No.: 52,625

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FORM PTO-1449

(REV. 8-83)

U.S. Department of
Commerce
Patent and Trademark OfficeAtty. Docket:
2002147-0020In Re Application No.:
10/617,082**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Applicant: Leeb, et al.

Filing Date:
July 10, 2003

Group:

JUL 26 2004

U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
	*6,504,633	Hovorka et al.	January 7, 2003	359	142
	*6,400,482	Lupton, et al.,	June 4, 2002	359	154
	*6,198,230	Leeb, et al.,	March 6, 2001	315	224

U.S. PATENT APPLICATIONS

Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:
	*60/085,261	Leeb, et al.	April 15, 1998		
	*60/108,287	Hovorka, et al.	November 13, 1998		
	*60/115,374	Hovorka, et al.	January 11, 1999		
	*60/191,725	Leeb, et al.,	March 24, 2000		

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No

OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
	*Abowd, et al., "Software Design Issues for Ubiquitous Computing", VLSI '98, <i>Proceedings, IEEE Computer Society Workshop on System Level Design</i> , 104-109, 1999.
	*Angrilli, et al., "Calibration of Stereo Vision Systems by Neural Networks", IMTC-96, Conference Proceedings, "Quality Measurement" The Indispensable Bridge Between Theory and Reality, <i>IEEE</i> , 2: 839-842, 1996.
	*Azuma, R. "Tracking Requirements for Augmented Reality, <i>Communications of the ACM</i> , 6(7): 50-51, 1995.
	*Bacon, et al., "Location-Oriented Multimedia", <i>IEEE Personal Communications</i> , 48-57, 1997.
	*Bahl, R., "An In-Building RF-Based User Location and Tracking System", Proceedings, INFOCOM 2000, 19th Annual Joint Conference of the IEEE Computing and Communication Societies, 2: 775-784, 2000.
	*Brown, et al., "Context-Aware Applications: From the Laboratory to the Marketplace", <i>IEEE</i>

INFORMATION DISCLOSURE STATEMENT

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Personal Communications, 58-64, 1997.*Chen, et al., "MESH: Multi-Eye Spiral-Hopping Routing Protocol in a Wireless Ad Hoc Network", *Proceedings 9th IEEE Int'l Conference on Computer Communications and Networks*, 657-661, 2000.*Couderc, et al., "Improving Level of Service for Mobile Users Using Context-Awareness", *Proceedings of the 18th IEEE Symposium on Reliable Distributed System*, 24-33, 1999.*Dey, et al., "The Conference Assistant: Combining Context-Awareness with Wearable Computing", *Digest of Papers, 3rd Int'l Symposium on Wearable Computers*, 21-28, 1999.*Jagannathan, et al., "A Fast Algorithm for Context-Aware Buffer Insertions", *Proceedings 37th Design Automation Conference*, 368-373, 2000.*Kim, et al., "Location-Aware Long-Life Route Selection in Wireless Ad Hoc Networks", *Electronics Letters*, 36(18): 1584-1586, 2000.

*Kim, "Location-Aware Long-Lived Route Selection in Wireless Ad Hoc Network" 52nd Vehicular Technology Conference, IEEE, 4: 1914-1919, 2000.

*Kindberg, et al., "People, Places Things: Web Presence for the Real World", 3rd IEEE Workshop on Mobile Computing Systems and Applications, *IEEE*, 19-28, 2000.*Ko, et al., "Personalized Virtual Exhibition Tour(PVET): An Experiment for Internet Collaboration", *IEEE International Conference on Sys.* 25-29, 1999.*Kortuem, et al., "Context-Aware, Adaptive Wearable Computers as Remote Interfaces to 'Intelligent' Environments", *Second Int'l Symposium on Wearable Computers*, 58-65, 1998.*Kovacs, et al., "Adaptive Mobile Access to Context-Aware Services", *Proceedings, First Int'l Symposium on Agent Systems and Applications and 3rd Int'l Symposium on Mobile Agents*, 190-201, 1999.*Kubach, et al., "An Adaptive, Location-Aware Hoarding Mechanism", *Proceedings, ISCC, 5th IEEE Symposium on Computers and Communication*, 615-620, 2000.*Leonhardi, et al., "Virtual Information Towers - A Metaphor for Intuitive, Location-Aware Information Access in a Mobile Environment", *3rd International Symposium on Wearable Computers*, 15-20, 1999.*Lutz, et al., "Fast Measuring of Solid Angles by Means of CCD Line Scan Cameras with Analytically Refined Optics", *Engineering in Medicine and Biology Society 1994, Engineering Advances, New Opportunities for Biomedical Engineers, Proceedings of the 16th Int'l Conference of the IEEE*, 3-6: 1994.*Maass, et al., "Open Mobility Management Platform with Directory-Based Architecture and Signalling Protocols", *Open Architecture and Network Programming, IEEE*, 1998.*Mandato, et al., "CAMP: A Context-Aware Mobile Portal", *2000 IEEE Service Portability and Virtual Customer Environments*, 52-61, 2000.*Nelson, G.J., "User Interaction with Machines on the Move: Location Aware Computing", *Proceedings of the 4th Workshop on Enabling Technologies, Infrastructure for Collaborative Enterprises*, 164-170, 1995.

(REV. 8-83)

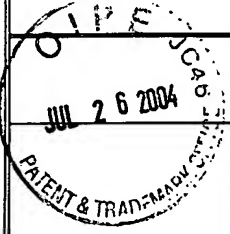
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Applicant: Leeb, et al.

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*Pfeifer, et al., "A Modular Location-Aware Service and Application Platform", *Proceedings, IEEE Int'l Symposium on Computers and Communications*, 137-148, 1999.

*Puskorius, et al., "Camera Calibration Methodology Based on a Linear Perspective Transformation Error Model", *Proceedings of the 16th Annual Int'l Conf on Robotics & Automation*, 3: 1858-1860, 1988.

*Ren, et al., "A Smart Network with Active Services for Wireless Context-Aware Multimedia Communications", *Wireless Communication and Systems*, 17.1-17.5, 1999.

*Rhodes, et al., "Wearable Computing Meets Ubiquitous Computing: Reaping the Best of Both Worlds", *Digest of Papers, 3rd Int'l Symposium*, 141-149, 1999.

*Schilit, et al., "Disseminating Active Map Information to Mobile Hosts", *IEEE Network*, 22-32, 1994.

*Schilit, et al., "Context-Aware Computing Applications", *Proceedings of the Workshop on Mobile Computing Systems and Applications, IEEE*, 85-90, 1994.

*Starnier, et al., "The Locust Swarm: An Environmentally-Powered, Networkless Location and Messaging System", *Proceedings of the 1st Int'l Symposium on Wearable Computers, IEEE*, 169-170, 1997.

*Taplin, et al., "Displacement Sensor Using Channelled Spectrum Dispersed on A Linear CCD Array", *Electronics Letters*, 29(10): 896-897.

*Tarumi, H., "Space Tag: An Overlaid Virtual System and Its Applications", *IEEE International Conference on Multimedia Computing System*, 1: 207-212, 1999.

*Ward, et al., "A New Location Technique for the Active Office", *IEEE, Personal Communications*, 42-47, 1997.

*Wilkins, G.D., "Holographic Optical Elements and Charge Coupled Device Technology at Work in Laser Communications Acquisition and Tracking Systems", *Proceedings of the IEEE, NAECON*, 1170-1173, 1992.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.